

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**  
**COLORADO RIVER BASIN REGION**

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA  
OCTOBER 2010 WATER QUALITY ANALYSES

FIELD MEASUREMENTS	YSI INSTRUMENT				HACH 2100P
DATE/TIME (MM/DD/YY HH:MM)	TEMP (°C) <sup>1</sup>	pH	DO (mg/l) <sup>2</sup>	EC (µmhos/cm) <sup>3</sup>	TURBIDITY (NTU) <sup>4</sup>
10/12/10 09:45 AM	24.36	7.75	5.81	6202	29.5

BACTERIAL ANALYSIS IBWC, YUMA-AZ <sup>5</sup>			CONCENTRATION (CFU/100ml) <sup>6</sup>
DATE/TIME (MM/DD/YY HH:MM)	STORET CODE	ANALYSIS METHOD	FECAL COLIFORM CONCENTRATION
10/06/10/ 9:25 AM	316315	Membrane Filter Procedure	110,000.0
10/20/10/ 8:00 AM	316315	Membrane Filter Procedure	410,000.0

<sup>1</sup> Temperature is measured in units of degrees Celsius (°C)

<sup>2</sup> Dissolved oxygen (DO) is measured in units of milligrams per liter (mg/l)

<sup>3</sup> Electrical conductivity (EC) is measured in units of micromhos per centimeter (µmhos/cm)

<sup>4</sup> Turbidity is measured in units of Nephelometer Turbidity Units (NTU). Field measurement

<sup>5</sup> Samples collected and analyzed by the International Boundary and Water Commission, United States Section Field Office in Yuma, Arizona. Sampling dates vary

<sup>6</sup> Fecal Coliform density is reported as colony forming units per 100 milliliters of water sample (CFU/100ml)

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**  
**COLORADO RIVER BASIN REGION**

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA  
OCTOBER 2010 WATER QUALITY ANALYSES

NUTRIENT ANALYSIS <sup>7</sup> DFG-WPCL- RANCHO CORDOVA, CA <sup>8</sup>				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (mg/l) <sup>9</sup>
MBAS	38260	SM 5540C	0.1	NR <sup>10</sup>
Total Phosphate	00665	EPA 365.4	0.02	0.734
O-Phosphate Phosphorous	00665	QC 10115011M	0.1	0.422
Phenol	32730	EPA 420.1	0.05	NR
Cyanide	00720	SM 4500CN(E)	0.05	NR
Ammonia - Nitrogen	00610	QC 10107061G	2.0	3.66
Nitrate - Nitrogen	71850	QC 10107041B	0.5	8.77
Nitrite - Nitrogen	00630	QC 10107041B	0.1	0.426
Hardness (as CaCO <sub>3</sub> )	00900	QC 10301311B	100	1140
Total Alkalinity (CaCO <sub>3</sub> )	00410	QC 10303311A	50	263
Bicarbonate	00440	SM 2320B	1	NR
Total Dissolved Solids	70300	SM 2540 C	10	3450
Total Suspended Solids	00530	SM 2540 D	8	39.1
Field Turbidity (NTU)	82078	EPA 180.1	0.1	29.5
BOD	00310	SM 5210B	2	NR
COD	00340	SM 5220	1	NR

<sup>7</sup> Samples collected October 12, 2010

<sup>8</sup> California Department of Fish & Game, Water Pollution Control Laboratory in Rancho Cordova, CA

<sup>9</sup> These concentrations are reported in units of milligrams per liter (mg/l) except for turbidity, which is report in units of NTUs

<sup>10</sup> Analysis Not Requested

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**  
**COLORADO RIVER BASIN REGION**

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA  
OCTOBER 2010 WATER QUALITY ANALYSES

METAL ANALYSIS <sup>11</sup> MPSL-DFG – MOSS LANDING, CA <sup>12</sup>				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (µg/l) <sup>13</sup>
As-Arsenic	1002	EPA 1638 M	0.06	15.6
Cd-Cadmium	1027	EPA 1638 M	0.03	ND <sup>14</sup>
Cr-Chromium	1034	EPA 1638 M	0.30	1.71
Cu-Copper	1042	EPA 1638 M	0.10	0.23
Pb-Lead	1051	EPA 1638 M	0.030	ND
Se-Selenium	1147	EPA 1638 M	1.0	ND
Zn-Zinc	1092	EPA 1638 M	0.70	ND
Hg-Mercury	71900	EPA 1638 M		NR <sup>15</sup>

OP PESTICIDE ANALYSIS <sup>16</sup> DFG-WPCL– RANCHO CORDOVA, CA		
CONSTITUENT	REPORTING LIMIT	CONCENTRATION (µG/L)
Aspon	0.050	ND
Azinphos ethyl	0.050	ND
Carbophenothion	0.050	ND
Chlorfenvinphos	0.050	ND
Chlorpyrifos	0.020	ND
Chlorpyrifos methyl	0.050	ND
Ciodrin	0.050	ND
Coumaphos	0.050	ND
Demeton-s	0.050	ND

<sup>11</sup> Samples collected October 12, 2010

<sup>12</sup> Marine Pollution Studies Laboratory, Department of Fish and Game at Moss Landing Marine Laboratories in Moss Landing, California

<sup>13</sup> These concentrations are reported in units of micrograms per liter (µg/l)

<sup>14</sup> The concentration of this constituent is below the Method Detection Limit

<sup>15</sup> Sample bottle broke during transport and could not be analyzed

<sup>16</sup> Samples collected October 12, 2010. Organo-Phosphate Pesticides were analyzed with USEPA Method 8141 AM

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**  
**COLORADO RIVER BASIN REGION**

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA  
OCTOBER 2010 WATER QUALITY ANALYSES

OP PESTICIDE ANALYSIS <sup>16</sup> DFG-WPCL- RANCHO CORDOVA, CA		
CONSTITUENT	REPORTING LIMIT	CONCENTRATION (µG/L)
Diazinon	0.020	ND
Dichlofenthion	0.050	ND
Dichlorvos	0.050	ND
Dicrotophos	0.050	ND
Dimethoate	0.050	ND
Dioxathion	0.050	ND
Disulfoton	0.050	0.084
Ethion	0.050	ND
Famphur	0.050	ND
Fenchlorphos	0.050	ND
Fenitrothion	0.050	ND
Fensulfothion	0.050	ND
Fenthion	0.050	ND
Fonofos	0.050	ND
Azinphos methyl	0.050	ND
Leptophos	0.050	ND
Malathion	0.050	ND
Methidathion	0.050	ND
Parathion, Methyl	0.050	ND
Parathion, Ethyl	0.050	ND

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**  
**COLORADO RIVER BASIN REGION**

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA  
OCTOBER 2010 WATER QUALITY ANALYSES

OP PESTICIDE ANALYSIS <sup>16</sup> DFG-WPCL- RANCHO CORDOVA, CA		
CONSTITUENT	REPORTING LIMIT	CONCENTRATION (µG/L)
Phorate	0.100	ND
Mevinphos	0.050	ND
Phosmet	0.100	ND
Phosphamidon	0.050	ND
Ethoprop	0.050	ND
Sulfotep	0.050	ND
Bolstar	0.050	ND
Terbufos	0.050	ND
Tetrachlorvinphos	0.050	ND
Thionazin	0.050	ND
Tokuthion	0.050	ND
Merphos	0.050	ND
Trichlorfon	0.050	ND
Trichloronate	0.050	ND